

Public Utilities--Water  
Capital Improvement Program

## Proposed Projects--2005/06

<b>Recurring Projects</b>		<b>2005/06</b>	<b>Project Total</b>
<b>Misc. Recurring Projects</b> (see schedules for details)		<b>2,108,000 *</b>	<b>13,332,000</b>
<b>Water System Improvements</b>			
31	Main Replacements	3,250,000 *	20,000,000
32	Evans Seismic Rehabilitation	3,500,000	6,000,000
33	Waterman Ave. Pipeline Replacement	5,500,000	9,500,000
34	Facility Rehabilitation	305,000 *	1,618,000
35	Michigan Booster Feeder	800,000	800,000
36	Pump Station Replacements	300,000 *	1,550,000
36	Buchanan Booster Station	862,000	862,000
<b>Water System Improvements</b>		<b>14,517,000</b>	<b>40,330,000</b>
<b>Other Projects</b>			
37	Property Acquisition	3,000,000 *	4,500,000
<b>Other Projects</b>		<b>3,000,000</b>	<b>4,500,000</b>
<b>Capitalized Interest</b>		<b>737,000</b>	
<b>Total Requirements:</b>		<b>20,362,000</b>	

\* This project will not appear on the GIS map as it occurs at multiple locations throughout the city, precise locations have not yet been identified, or it is located outside the city boundaries.

## Summary of Expenditures by Year

2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	Total
18,322,000	20,362,000	7,722,000	6,261,000	6,595,000	6,675,000	65,937,000

### Introduction

Water System capital expenditures of \$65,937,000 over a six-year period are projected to maintain system reliability, to secure new water resources, to serve new residential and commercial developments, relocate facilities for transportation improvements, and to refurbish the water system.

Historically, due to tight budget constraints, the Utility's primary focus has been on serving new customers. Because the infrastructure is old, the Utility must significantly expand the Capital Improvement Program's focus to include fundamental replacements. Additional appropriations totaling approximately \$8,000,000 per year are needed over the next 30 years to replace and refurbish aging infrastructure. Funding for this program has not been identified and is outside the scope of the current CIP.

Additional improvements totaling \$132,000,000 have been identified in the draft Water Master Plan by the City's consultant, MWH Americas, Inc. These improvements have not been incorporated into this plan.

The Water CIP is organized around three main sections: Recurring Projects, Water System Improvements, and Other Projects.

### *Recurring Projects*

Recurring projects totaling \$13.3 million include construction and purchase of equipment of a continuing nature that occur on a regular basis. These expenditures also include replacement of water supply and distribution facilities. Significant recurring projects include:

- Design and construction of system expansion to serve new customers totaling \$7.7 million.

- Design and construction of distribution system facilities replacements totaling \$3.6 million.
- Continued funding of a water meter replacement program. This program, totaling \$946,000 for the current six-year period, will provide for the pro-active replacement of approximately 320 small residential and commercial meters per month. Meter replacements will be scheduled based on criteria including age of the meter, and should increase metering accuracy.

Other routine expenditures include purchases of fire hydrants, booster pump additions and replacements, and automation and security equipment.

### *Water System Improvements*

Water system improvements totaling \$43.6 million include construction of distribution and transmission pipelines, domestic water wells, and booster stations.

Major water system improvements projects in this CIP include:

- Design and construction of various water distribution mains totaling \$20.0 million to replace leaking and undersized mains throughout the system (partially funded by a cumulative four percent rate adder).
- Reconstruction of the Waterman Avenue Transmission main in San Bernardino at the estimated cost of \$11.5 million. An estimated \$2.0 million of this expenditure would be funded by Western Municipal Water District as payment for over-sizing the facility for WMWD use.

## Summary of Expenditures by Year

- Construction of seismic improvements at the Evans Reservoir totaling \$6.0 million.
- Design and construction of various booster pumping station replacement facilities to replace older, outdated facilities totaling \$1,550,000.

### *Other Projects*

Miscellaneous and transportation related projects totaling \$7.2 million include:

- Relocation and replacement of various water supply, transmission, and distribution facilities resulting from expansion and reconstruction of state highway facilities totaling \$1,618,000. This project will be reimbursed by the State under existing agreements.
- Funding for construction of storm drain projects to facilitate abandonment of portions of the Riverside Water Company Canal totaling \$500,000.
- \$100,000 for construction of landscape and security improvements at various water utility facilities to improve security and aesthetics.
- \$4,500,000 in property acquisition for future reservoirs, booster stations, and other facilities.

### **City Council Priorities Addressed**

This Capital Improvement Program addresses three of the City Council's Priorities: Growth and Annexation, Transportation, and Livable Communities and Neighborhoods. The other priority, Economic Development, is encompassed in all Water CIP projects as the improvements result in a safe, reliable water system and supply.

Approximately \$45,762,000 or 69% of the proposed six-year program funds projects related to livable communities and

neighborhoods in Riverside. These projects include new distribution and transmission mains, and booster pumping stations that help ensure a safe, reliable, efficient and cost effective water system.

Twenty-six percent of the CIP totaling \$16,828,000 relate to improvements needed due to growth and annexation. These projects include new facilities to serve increased water demand.

This CIP includes \$3,347,000 to relocate water facilities that are impacted by street improvements and highway construction. \$1,618,000 of this funding will be reimbursed by the State of California as it results from improvements proposed for the I-215/91/60 highway project. In an indirect way, this funding supports the strategic goal of reducing traffic congestion.

### **Other Prioritization and Selection Criteria**

All Water CIP projects have been classified according to one of seven priorities.

Priority 1A — Service to new City-approved customers and contractual obligations (to be reimbursed by customers).

Priority 1B — Service to new City-approved customers and contractual obligations (funded by Riverside Public Utilities).

Priority 2 — Projects to maintain minimum service levels and standards.

Priority 3A — Projects to increase or maintain distribution system reliability.

Priority 3B — Projects to increase or maintain supply system reliability.

Priority 4 — Projects that pay back over time more than the initial cost (Economic Projects).

Priority 5 — Projects that are undertaken to increase aesthetics, or do not fit within the other priority classes.

## **Summary of Expenditures by Year**

Water main replacement projects, which fall under the Priority 3A category are further prioritized by a formula that considers available fire protection, leak occurrence, age, size, and pipe material.

Staff is developing a program and associated financial plan for consideration by the Board of Public Utilities that would address these future CIP considerations. The plan will be presented during the Board's long-term goal setting workshops beginning in February 2005.

### **Key Revenues and Funding Sources**

The CIP will be supported by reimbursements from outside entities, debt financing, contributions in aid of construction, reserves, proceeds from the sale of excess property, and revenues. Although the CIP is higher than the financial plan targets, the projects can be funded with proceeds from excess property sales, estimated to be approximately \$10.5 million. In addition, approximately \$29.0 million worth of capital projects will be funded by revenues, reserves and contributions, and approximately \$7.9 million will be funded by outside entities. The balance of the proposed CIP expenditures will be funded from debt financing.

### **Future CIP Considerations**

The Water Capital Improvement Program is developed within the context of the overall Utility financial plan. This plan includes certain rate increases to fund the water main replacement program and keep pace with inflation.

The long-term rate plan is not sufficient to keep pace with rapidly increasing infrastructure replacement, expansion, and treatment requirements. Future infrastructure recommendations have been developed within the context of the Water Master Plan (draft), the Recycled Water Master Plan, and the Water Supply Plan 2004. Improvements totaling \$132,000,000 and recommended to be built over the next 20 years are included in the Water Master Plan. New treatment and water supply improvements totaling \$35,000,000 have been identified in the Water Supply Plan and Recycled Water Master plan. Other improvements to replace and refurbish the aging infrastructure total approximately \$8,000,000 per year.

**Table WT 1.1**  
Public Utilities - Water Fund  
**Funding Sources**

<b>Projected Capital Requirements</b>	<b>2004/05</b>	<b>2005/06</b>	<b>2006/07</b>	<b>2007/08</b>	<b>2008/09</b>	<b>2009/10</b>	<b>Total</b>
Capital Improvement Budget	18,322,000	20,362,000	7,722,000	6,261,000	6,595,000	6,675,000	65,937,000
Adjustment To Cash Flow	(3,777,000)	9,863,000	0	0	0	0	6,086,000
<b>Projected Cash Flow</b>	<b>14,545,000</b>	<b>30,225,000</b>	<b>7,722,000</b>	<b>6,261,000</b>	<b>6,595,000</b>	<b>6,675,000</b>	<b>72,023,000</b>
<b>Financing Sources</b>							
Contributions In Aid Of Construction	1,211,000	1,247,000	1,284,000	1,322,000	1,361,000	1,401,000	7,826,000
Buchanan Developer Fees		562,000	0	0	0	0	562,000
SCIWP Grant (Riverside Canal Repair)	2,250,000	0	0	0	0	0	2,250,000
Caltrans 60/91/215 Project	2,617,500	1,000,000	0	0	0	0	3,617,500
WMWD Waterman Pipeline	0	2,000,000	0	0	0	0	2,000,000
Main Replacement from Rates (surcharge)	1,400,000	1,500,000	1,700,000	1,700,000	1,800,000	1,900,000	10,000,000
Proceeds from Sale of Surplus Property	0	10,500,000	0	0	0	0	10,500,000
Financing Proceeds (1)	4,946,550	9,391,200	3,316,600	2,267,300	2,403,800	2,361,800	24,687,250
Revenue From Rates/Reserves	2,119,950	4,024,800	1,421,400	971,700	1,030,200	1,012,200	10,580,250
<b>Total Funds Available</b>	<b>14,545,000</b>	<b>30,225,000</b>	<b>7,722,000</b>	<b>6,261,000</b>	<b>6,595,000</b>	<b>6,675,000</b>	<b>72,023,000</b>

(1) Planned bond issuance of \$20 million in 2004/05.

Table WT 1.2  
Capital Improvement Program  
Public Utilities - Water Fund

## Summary of Budget Requirements

		Budgeted						
		2004/05	2005/06	2006/07	2007/08	2008/09	2009/10	Total
<b>Recurring Projects</b>	<b>GL Key - Object</b>							
System Expansion	6230000-470701	1,185,000	1,221,000	1,258,000	1,296,000	1,335,000	1,375,000	7,670,000
Meters	6230000-470702	146,000	150,000	155,000	160,000	165,000	170,000	946,000
Fire Hydrants	6230000-470703	11,000	11,000	11,000	11,000	11,000	11,000	66,000
Miscellaneous Additions	6230000-470704	11,000	11,000	11,000	11,000	11,000	11,000	66,000
Water Stock	6230000-470705	10,000	10,000	10,000	10,000	10,000	10,000	60,000
Distribution System Facilities Replacement	6230000-470706	561,000	578,000	595,000	613,000	631,000	650,000	3,628,000
Automation and Security	6230000-470714	21,000	0	0	0	0	0	21,000
Booster Pump Additions	6230000-470720	57,000	0	0	0	0	0	57,000
Well Betterments	6230000-470722	23,000	0	0	0	0	0	23,000
Street Improvements	6230000-470734	113,000	116,000	119,000	123,000	127,000	131,000	729,000
San Bernardino Transmission Main Replacement	6230000-470747	11,000	11,000	11,000	11,000	11,000	11,000	66,000
<b>Total Recurring Projects</b>		<b>2,149,000</b>	<b>2,108,000</b>	<b>2,170,000</b>	<b>2,235,000</b>	<b>2,301,000</b>	<b>2,369,000</b>	<b>13,332,000</b>
<b>Water System Improvements</b>	<b>GL Key - Object</b>							
Main Replacements	6230000-470707	3,250,000	3,250,000	3,250,000	3,250,000	3,500,000	3,500,000	20,000,000
Evans Seismic Rehabilitation	6230000-470742	2,500,000	3,500,000	0	0	0	0	6,000,000
Waterman Ave. Pipeline Replacement	6230000-470787	4,000,000	5,500,000	0	0	0	0	9,500,000
Flume Transmission Main Replacement	6230000-470798	800,000	0	0	0	0	0	800,000
Waterman Ave. Oversizing	6230000-470800	2,000,000	0	0	0	0	0	2,000,000
Michigan Booster Feeder	6230000-470801	0	800,000	0	0	0	0	800,000
Hunter Ind. Park Assessment District Imp.	6230000-470799	500,000	0	0	0	0	0	500,000
Pump Station Replacements	6230000-470802	50,000	300,000	300,000	300,000	300,000	300,000	1,550,000
Facility Rehabilitation	6230000-470803	0	305,000	314,000	323,000	333,000	343,000	1,618,000
Buchanan Booster Station	6230000-470804	0	862,000	0	0	0	0	862,000
<b>Water System Improvements</b>		<b>13,100,000</b>	<b>14,517,000</b>	<b>3,864,000</b>	<b>3,873,000</b>	<b>4,133,000</b>	<b>4,143,000</b>	<b>43,630,000</b>
<b>Other Projects</b>	<b>GL Key - Object</b>							
Landscape/Security Improvements	6230000-470715	100,000	0	0	0	0	0	100,000
Railroad Encasements	6230000-470780	500,000	0	0	0	0	0	500,000
CalTrans 60/91/215 Improvements - Reimbursed	6230000-470790	1,618,000 ‡	0	0	0	0	0	1,618,000
Canal Abandonment - RCFCDD Storm Drain	6230000-470795	500,000	0	0	0	0	0	500,000
Property Acquisition	6230000-470805	0	3,000,000	1,500,000	0	0	0	4,500,000
<b>Other Projects</b>		<b>2,718,000</b>	<b>3,000,000</b>	<b>1,500,000</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7,218,000</b>
<b>Capitalized Interest</b>		<b>355,000</b>	<b>737,000</b>	<b>188,000</b>	<b>153,000</b>	<b>161,000</b>	<b>163,000</b>	<b>1,757,000</b>
<b>Total Requirements</b>		<b>18,322,000</b>	<b>20,362,000</b>	<b>7,722,000</b>	<b>6,261,000</b>	<b>6,595,000</b>	<b>6,675,000</b>	<b>65,937,000</b>

Note: Future capital projects have been adjusted to account for inflation.

‡ Mid Year appropriation by Council Action

2004/05 to 2009/10

Public Utilities / Capital Improvements - Water Fund

**Capital Project Descriptions**

Project		Description of Improvement	Project Estimated Annual Cost	Operating Annual Cost
2004/05				
Recurring Projects				
1	System Expansion (New Customer Construction).	Construct water distribution facilities to serve new customers.	1,185,000	0
2	Meters	Purchase meters for new customers and	146,000	0
3	Fire Hydrants	Install new hydrants on existing mains.	11,000	0
4	Miscellaneous Additions	Water systems expansion related to existing	11,000	0
5	Water Stock	Purchase water stock for water rights acquisition.	10,000	0
6	Distribution System	Replace meters, services, fire hydrants booster pumps, valves, etc.	561,000	0
7	Automation Controls and Security System	Purchase and install automation control equipment and security systems at water facilities.	21,000	0
8	Booster Pump Additions and Betterment	Purchase and install pumps, motors, etc.. For expansion of existing booster stations.	57,000	0
9	Well Betterment	Rehabilitate existing wells and replace equipment.	23,000	0
10	Projects to Clear for Street Improvements	Relocate and/or extend services, fire hydrants, mains to meet street, storm drain, and sewer projects.	113,000	0
11	San Bernardino Transmission Main Replacement	Replace, relocate, and improve existing transmission mains in the San Bernardino area.	11,000	0
Subtotal			2,149,000	0
Water System Improvements				
12	Main Replacements	Design and construct water main replacements throughout the distribution system.	3,250,000	0
13	Evans Seismic Rehabilitation	Construction of seismic improvements to the 16-million gallon water storage reservoir.	2,500,000	
14	Waterman Ave. Pipeline Replacement	Design and construction of approximately 9,000 feet of water supply transmission main to replace the existing 80-year old pipeline.	4,000,000	0
15	Flume Transmission Main Replacement	Construction of approximately 2,000 feet of water supply transmission main within the Santa Ana	800,000	0
16	Waterman Ave. Oversizing	Funding for joint project with WMWD for oversizing the Waterman Ave. Pipeline Replacement project for wheeling water to WMWD. Project costs to be reimbursed by WMWD.	2,000,000	0
17	Pump Station Replacements	Design and construction of new booster pumping station improvements to replace aging facilities.	50,000	0
18	Hunter Park Industrial	Design and construction of water system improvements and relocations in the Hunter Park area to clear proposed street improvement project	500,000	
Subtotal			13,100,000	0
Other Projects				
19	Landscape/Security Improvements	Design and construction of various landscape improvements at water system facilities.	100,000	0
20	Hunter Ind. Park Assessment District Imp.	Design and construction of water system improvements and relocations in the Hunter Park area to clear proposed street improvement projects.	500,000	0
21	Canal Abandonment - RCFCD Storm Drain	Funding for RCFCD "Line H" under the terms of the Canal Abandonment cost sharing agreement.	500,000	

City of Riverside

2004/05 to 2009/10

Public Utilities / Capital Improvements - Water Fund

**Capital Project Descriptions**

		Project Estimated Annual	Cost	Operating Cost
Project	Description of Improvement			
22	Caltrans 60/91/215 Improvements - reimbursed	Design and construction of various water system improvements related to the State highway project. Projects funded under this account will be reimbursed under State contracts.	1,618,000	0
<b>Subtotal</b>			<b>2,718,000</b>	<b>0</b>
<b>Capitalized Interest</b>			<b>355,000</b>	
<b>Total</b>			<b>18,322,000</b>	<b>0</b>



**Capital Project Descriptions**

Project		Description of Improvement	Project Estimated Annual Cost	Operating Cost
2005/06				
Recurring Projects				
23	System Expansion (New Customer Construction).	Construct water distribution facilities to serve new customers.	1,221,000	0
24	Meters	Purchase meters for new customers and	150,000	0
25	Fire Hydrants	Install new hydrants on existing mains.	11,000	0
26	Miscellaneous Additions	Water systems expansion related to existing	11,000	0
27	Water Stock	Purchase water stock for water rights acquisition.		
			10,000	0
28	Distribution System Facilities Replacements	Replace meters, services, fire hydrants booster pumps, valves, etc.	578,000	0
29	Projects to Clear for Street Improvements	Relocate and/or extend services, fire hydrants, mains to meet street, storm drain, and sewer projects.	116,000	0
30	San Bernardino Transmission Main Replacement	Replace, relocate, and improve existing transmission mains in the San Bernardino area.	11,000	0
Subtotal			2,108,000	0
Water System Improvements				
31	Main Replacements	Design and construct water main replacements throughout the distribution system.		
			3,250,000	0
32	Evans Seismic Rehabilitation	Construction of seismic improvements to the 16-million gallon water storage reservoir.	3,500,000	0
33	Waterman Ave. Pipeline Replacement	Design and construction of approximately 9,000 feet of water supply transmission main to replace the existing 80-year old pipeline.	5,500,000	0
34	Facility Rehabilitation	Design, purchase and construct pump, well, building and security items necessary to	305,000	0
35	Michigan Booster Feeder	Design and construction of approximately 5,500 feet of water transmission main to serve the	800,000	0
36	Pump Station Replacements	Design and construction of new booster pumping station improvements to replace aging facilities.	300,000	0
37	Buchanan Booster Station	Design and construction of new booster pumping station improvements to serve existing and proposed developments	862,000	
Subtotal			14,517,000	0
Other Projects				
38	Property Acquisition	Purchase property for proposed facility sites.	3,000,000	0
Subtotal			3,000,000	0
Capitalized Interest			737,000	
Total			20,362,000	0

2004/05 to 2009/10

Public Utilities / Capital Improvements - Water Fund

**Capital Project Descriptions**

Project		Description of Improvement	Project Estimated Annual Cost	Operating Cost
2006/07				
Recurring Projects				
39	System Expansion (New Customer Construction).	Construct water distribution facilities to serve new customers.	1,258,000	0
40	Meters	Purchase meters for new customers and	155,000	0
41	Fire Hydrants	Install new hydrants on existing mains.	11,000	0
42	Miscellaneous Additions	Water systems expansion related to existing	11,000	0
43	Water Stock	Purchase water stock for water rights acquisition.		
			10,000	0
44	Distribution System Facilities Replacements	Replace meters, services, fire hydrants booster pumps, valves, etc.	595,000	0
45	Projects to Clear for Street Improvements	Relocate and/or extend services, fire hydrants, mains to meet street, storm drain, and sewer projects.	119,000	0
46	San Bernardino Transmission Main Replacement	Replace, relocate, and improve existing transmission mains in the San Bernardino area.	11,000	0
Subtotal			2,170,000	0
Water System Improvements				
47	Main Replacements	Design and construct water main replacements throughout the distribution system.	3,250,000	0
48	Pump Station Replacements	Design and construction of new booster pumping station improvements to replace aging facilities.	300,000	0
49	Facility Rehabilitation	Design, purchase and construct pump, well, building and security items necessary to	314,000	0
Subtotal			3,864,000	0
Other Projects				
50	Property Acquisition	Purchase property for proposed facility sites.	1,500,000	0
Subtotal			1,500,000	0
Capitalized Interest			188,000	
Total			7,722,000	0

**2007/08****Recurring Projects**

51	System Expansion (New Customer Construction).	Construct water distribution facilities to serve new customers.	1,296,000	0
52	Meters	Purchase meters for new customers and	160,000	0
53	Fire Hydrants	Install new hydrants on existing mains.	11,000	0
54	Miscellaneous Additions	Water systems expansion related to existing	11,000	0
55	Water Stock	Purchase water stock for water rights acquisition.		
			10,000	0
56	Distribution System Facilities Replacements	Replace meters, services, fire hydrants booster pumps, valves, etc.	613,000	0
57	Projects to Clear for Street Improvements	Relocate and/or extend services, fire hydrants, mains to meet street, storm drain, and sewer projects.	123,000	0
58	San Bernardino Transmission Main Replacement	Replace, relocate, and improve existing transmission mains in the San Bernardino area.	11,000	0

City of Riverside

2004/05 to 2009/10

Public Utilities / Capital Improvements - Water Fund

**Capital Project Descriptions**

		Description of Improvement	Project Estimated Annual	
Project			Cost	Operating Cost
<b>Subtotal</b>			<b>2,235,000</b>	<b>0</b>
<b>Water System Improvements</b>				
59	Main Replacements	Design and construct water main replacements throughout the distribution system.		
			3,250,000	0
60	Pump Station Replacements	Design and construction of new booster pumping station improvements to replace aging facilities.		
			300,000	0
61	Facility Rehabilitation	Design, purchase and construct pump, well, building and security items necessary to		
			323,000	0
<b>Subtotal</b>			<b>3,873,000</b>	<b>0</b>
<b>Capitalized Interest</b>			<b>153,000</b>	
<b>Total</b>			<b>6,261,000</b>	<b>0</b>

2004/05 to 2009/10

Public Utilities / Capital Improvements - Water Fund

**Capital Project Descriptions**

Project		Description of Improvement	Project Estimated Annual Cost	Operating Cost
2008/09				
Recurring Projects				
62	System Expansion (New Customer Construction).	Construct water distribution facilities to serve new customers.	1,335,000	0
63	Meters	Purchase meters for new customers and	165,000	0
64	Fire Hydrants	Install new hydrants on existing mains.	11,000	0
65	Miscellaneous Additions	Water systems expansion related to existing	11,000	0
66	Water Stock	Purchase water stock for water rights acquisition.	10,000	0
67	Distribution System Facilities Replacements	Replace meters, services, fire hydrants booster pumps, valves, etc.	631,000	0
68	Projects to Clear for Street Improvements	Relocate and/or extend services, fire hydrants, mains to meet street, storm drain, and sewer projects.	127,000	0
69	San Bernardino Transmission Main Replacement	Replace, relocate, and improve existing transmission mains in the San Bernardino area.	11,000	0
Subtotal			2,301,000	0
Water System Improvements				
70	Main Replacements	Design and construct water main replacements throughout the distribution system.	3,500,000	0
71	Pump Station Replacements	Design and construction of new booster pumping station improvements to replace aging facilities.	300,000	0
72	Facility Rehabilitation	Design, purchase and construct pump, well, building and security items necessary to	333,000	0
Subtotal			4,133,000	0
Capitalized Interest			161,000	
Total			6,595,000	0
2009/10				
Recurring Projects				
73	System Expansion (New Customer Construction).	Construct water distribution facilities to serve new customers.	1,375,000	0
74	Meters	Purchase meters for new customers and	170,000	0
75	Fire Hydrants	Install new hydrants on existing mains.	11,000	0
76	Miscellaneous Additions	Water systems expansion related to existing	11,000	0
77	Water Stock	Purchase water stock for water rights acquisition.	10,000	0
78	Distribution System Facilities Replacements	Replace meters, services, fire hydrants booster pumps, valves, etc.	650,000	0
79	Projects to Clear for Street Improvements	Relocate and/or extend services, fire hydrants, mains to meet street, storm drain, and sewer projects.	131,000	0
80	San Bernardino Transmission Main Replacement	Replace, relocate, and improve existing transmission mains in the San Bernardino area.	11,000	0
Subtotal			2,369,000	0
Water System Improvements				
81	Main Replacements	Design and construct water main replacements throughout the distribution system.	3,500,000	

City of Riverside

2004/05 to 2009/10

Public Utilities / Capital Improvements - Water Fund

**Capital Project Descriptions**

<b>Project</b>		<b>Description of Improvement</b>	<b>Project Estimated Annual Cost    Operating Cost</b>	
82	Pump Station Replacements	Design and construction of new booster pumping station improvements to replace aging facilities.	300,000	0
83	Facility Rehabilitation	Design, purchase and construct pump, well, building and security items necessary to	343,000	0
<b>Subtotal</b>			<b>4,143,000</b>	<b>0</b>
<b>Capitalized Interest</b>			<b>163,000</b>	<b>0</b>
<b>Total</b>			<b>6,675,000</b>	<b>0</b>
<b>Total Capital Improvements - Water Fund</b>			<b>65,937,000</b>	<b>0</b>